



## SEQUENCE LISTING

<110> BRINKMANN, ULRICH  
HOFFMEYER, SVEN  
MORNHINWEG, ESTHER

<120> POLYMORPHISMS IN THE HUMAN GENE FOR THE MULTIDRUG  
RESISTANCE-ASSOCIATED PROTEIN 1 (MRP-1) AND THEIR USE IN  
DIAGNOSTIC AND THERAPEUTIC APPLICATIONS

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<160> 406

<170> PatentIn version 3.2

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<p>&lt;220&gt;  &lt;223&gt; Description of Artificial Sequence: Primer</p>	
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<p>&lt;220&gt;  &lt;223&gt; Description of Artificial Sequence: Primer</p>	
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<p>&lt;220&gt;  &lt;223&gt; Description of Artificial Sequence: Primer</p>	
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21

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21

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<210> 301  
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 (exon 10, Arg433Ser)

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21

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 1 5

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 <223> Description of Artificial Sequence: sequence of G27258A  
 (exon 17, Arg723Gln)

<220>  
 <221> CDS  
 <222> (1)..(21)

<400> 325  
 gat tct ctc caa gaa aac atc  
 Asp Ser Leu Gln Glu Asn Ile  
 1 5

21

<210> 326  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: sequence of G27258A  
 (exon 17, Arg723Gln)

<400> 326  
 Asp Ser Leu Gln Glu Asn Ile  
 1 5

<210> 327  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: sequence of T249G  
 (exon 8, Phe329Cys)

<220>  
 <221> CDS  
 <222> (1)..(21)

<400> 327  
 ctc atg agc tgc ttc ttc aag  
 Leu Met Ser Cys Phe Phe Lys  
 1 5

21

<210> 328  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: sequence of T249G  
 (exon 8, Phe329Cys)

<400> 328  
 Leu Met Ser Cys Phe Phe Lys  
 1 5

<210> 329  
 <211> 20  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 329  
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<210> 330  
 <211> 20  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 330  
 gaggatcaac aacctgggtta

20



<210> 331  
 <211> 20  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 331  
 taaccaggtt rttgacctc 20

<210> 332  
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 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 332  
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<210> 333  
 <211> 21  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 333  
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<210> 334  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 334  
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<210> 335  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 335  
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<210> 336  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 336  
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<210> 337  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 337  
 tgggcacgcg accccccacg ca 22

<210> 338  
 <211> 22  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 338  
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<210> 339  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 339  
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<210> 340  
 <211> 22  
 <212> DNA  
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<220>  
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 <210> 341  
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 <400> 341  
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 <210> 342  
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 <213> Artificial Sequence  
  
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 gaagccagcg tggacacatg g 21  
  
 <210> 343  
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 <210> 344  
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 <210> 345  
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<212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 345  
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<210> 346  
 <211> 21  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 346  
 cccacaaggt tgggggcttc a 21

<210> 347  
 <211> 21  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 347  
 tgaagccccc raccttggtg g 21

<210> 348  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 348  
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<210> 349  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 349  
 tgggtggcac ggtgctggtg a 21

<210> 350  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 350  
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<210> 351  
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 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 351  
 tgggtggcac rgtgctggtg a 21

<210> 352  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 352  
 tcaccagcac ygtgccaccc a 21

<210> 353  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 353  
 gctgggtggc gcagtgtgtg t 21

<210> 354  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 354  
 accaagcact gcgccaccca gc 22

<210> 355  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 355  
 gctgggtggc rcagtgtgg t 21

<210> 356  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 356  
 accaagcact gygccaccca gc 22

<210> 357  
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 <212> DNA  
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<220>  
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<400> 357  
 ggcccgatca cccgccgccg 20

<210> 358  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 358  
 cggcggcggg tgatcgggcc 20

<210> 359  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
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 <222> (11)..(24)  
 <223> these nucleotides may not be present  
  
 <400> 359  
 ggccccgatca cccgccgccc ggtgcccgcc gccg 34  
  
 <210> 360  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
 <220>  
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 <222> (11)..(24)  
 <223> these nucleotides may not be present  
  
 <400> 360  
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 <210> 361  
 <211> 56  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
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 <400> 361  
 tcacctgcgcc gccgccgccg ccgccgccgc cgcgccgcc gccgccagcg ctagcg 56  
  
 <210> 362  
 <211> 56  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
 <400> 362  
 cgctagcgct ggccggcggg gcggcgggcg cggcgggcg gccggcgggc cagggg 56  
  
 <210> 363  
 <211> 59

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (47)..(49)  
 <223> these nucleotides may not be present

<400> 363  
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<210> 364  
 <211> 59  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<220>  
 <221> misc\_feature  
 <222> (11)..(13)  
 <223> these nucleotides may not be present

<400> 364  
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<210> 365  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<400> 365  
 tccctgcgcc gccgcccgcg ccgcccgcgc cgccgcccgc gccagcgcta gcg 53

<210> 366  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 366  
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<210> 367  
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 <222> (44)..(49)  
 <223> these nucleotides may not be present  
  
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 <210> 368  
 <211> 59  
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 <223> these nucleotides may not be present  
  
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 <210> 369  
 <211> 50  
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 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
 <400> 369  
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 <210> 370  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
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<210> 371  
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<220>  
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<220>  
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<400> 371  
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<210> 372  
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 <212> DNA  
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<220>  
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<400> 372  
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<210> 373  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 373  
 tccctgcgcc gccgcccgcg ccgcccgcg cgccgccagc gctagcg 47

<210> 374  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 374  
 cgctagcgct ggcggcgggcg gcggcgggcg cggcggcggc gcagggga 47

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<210> 375
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>
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<222> (38)..(49)
<223> these nucleotides may not be present

<400> 375
tccctgcgcc gccgcccgcg ccgcccgcgc cgccgcccgc gccgcccga gcgctagcg      59

<210> 376
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (11)..(22)
<223> these nucleotides may not be present

<400> 376
cgctagcgct ggcggcggcg gcggcgggcg cggcggcggc ggcggcggcg gcgcagggga      59

<210> 377
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 377
tccctgcgcc gccgcccgcg ccgcccgcag cgctagcg      38

<210> 378
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

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<400> 378  
cgctagcgct ggcggcggcg gcggcgggcg gcgagggga 38

<210> 379  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (29)..(49)  
<223> these nucleotides may not be present

<400> 379  
tccctgcgcc gccgccggcg ccgccggcg gcgccggcg gccgccgcca gcgctagcg 59

<210> 380  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>  
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<223> these nucleotides may not be present

<400> 380  
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<210> 381  
<211> 20  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 381  
tcaagcagag agagagtgtt 20

<210> 382  
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<212> DNA  
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<220>  
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 aacactctct ctctgcttga 20  
  
 <210> 383  
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 <220>  
 <221> misc\_feature  
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 <223> these nucleotides may not be present  
  
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 <210> 384  
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 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
 <220>  
 <221> misc\_feature  
 <222> (11)..(12)  
 <223> these nucleotides may not be present  
  
 <400> 384  
 aacactctct ttctctgctt ga 22  
  
 <210> 385  
 <211> 21  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
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 <210> 386  
 <211> 21  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 386  
 tgaatgacac aaaggcccca g 21

<210> 387  
 <211> 21  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 387  
 ctggggcctt ygtgtcattc a 21

<210> 388  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 388  
 tgaatgacac raaggcccca g 21

<210> 389  
 <211> 21  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

/ <400> 389  
 acacaaggag atgaagccgt t 21

<210> 390  
 <211> 21  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 390  
 aacggcttca tctccttg t 21

<210> 391  
 <211> 21  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
 <400> 391  
 acacaaggag rtgaagccgt t 21  
  
 <210> 392  
 <211> 21  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
 <400> 392  
 aacggcttca yctccttg t 21  
  
 <210> 393  
 <211> 21  
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 <220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide  
  
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 caggcccccc cagacctcag g 21  
  
 <210> 394  
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 <212> DNA  
 <213> Artificial Sequence  
  
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 cctgaggtct gggggggcct g 21  
  
 <210> 395  
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<220>  
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 caggccccc cagacctcag g 21

<210> 396  
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<220>  
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<220>  
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 <223> this nucleotide may not be present

<400> 396  
 cctgaggtct gggggggcct g 21

<210> 397  
 <211> 21  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 397  
 tacagttttg attttgttga g 21

<210> 398  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 398  
 ctcaacaaaa tcaaaactgt a 21

<210> 399  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide



<400> 399  
tacagttttg rttttgttga g 21

<210> 400  
<211> 21  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 400  
ctcaacaaaa ycaaaactgt a 21

<210> 401  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Illustrative peptide

<400> 401  
Thr Pro Leu Asn Lys Ile Lys Thr Ala Leu Gly  
1 5 10

<210> 402  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Illustrative peptide

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Thr or Ile

<400> 402  
Thr Pro Leu Asn Lys Xaa Lys Thr Ala Leu Gly  
1 5 10

<210> 403  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative peptide

<400> 403  
 Cys Asn His Val Ser Thr Leu Ala Ser Asn Tyr  
 1 5 10

<210> 404  
 <211> 11  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Illustrative peptide

<220>  
 <221> MISC\_FEATURE  
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 <223> Ala or Thr

<400> 404  
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 1 5 10

<210> 405  
 <211> 15  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 405  
 cccgccgccc gggtg 15

<210> 406  
 <211> 14  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Illustrative transport family signature motif

<220>  
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 <222> (7) .. (9)  
 <223> Xaa can be any amino acid

<220>  
 <221> MISC\_FEATURE

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<222> (11)..(11)
<223> Xaa can be any hydrophobic amino acid

<220>
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<222> (12)..(12)
<223> Xaa can be any amino acid

<220>
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<222> (13)..(13)
<223> Xaa can be any hydrophobic amino acid

<400> 406
Leu Ser Ser Gly Gly Gln Xaa Xaa Xaa Arg Xaa Xaa Xaa Ala
1          5          10

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